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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,490	04/27/2001	Akira Ichikawa	1217-010666	8227
7590	09/24/2003	Russell D Orkin 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1818	13	
			EXAMINER	
			CHAN, SING P	
			ART UNIT	PAPER NUMBER
			1734	

DATE MAILED: 09/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/830,490	ICHIKAWA ET AL.
	Examiner Sing P Chan	Art Unit 1734

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____ .
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-4 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 2 and 3 is/are allowed.
 6) Claim(s) 1 is/are rejected.
 7) Claim(s) 4 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1.) Certified copies of the priority documents have been received.
 2.) Certified copies of the priority documents have been received in Application No. _____ .
 3.) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Fujikawa et al (JP 11-161760).

The admitted prior art discloses a method of forming an IC card. The method includes mounting transmission/reception coils and other devices onto a substrate, and interposing and laminating both surfaces of the mounting substrate with laminating films using a thermal adhesive. The admitted prior art notes the problem of unevenness in such IC cards. (Specification, Pages 2-3 and Figure 6) The admitted prior art does not disclose feeding an adhesive in fluid condition on the surface of the laminating films. However, laminating films onto a mounting substrate using adhesive in fluid condition on the laminating films is well known and conventional as shown for example by Fujikawa et al. Fujikawa et al discloses a method of forming an IC card. The method includes applying covering film with a coating of adhesive to the mounting substrate and laminating with hot rolls, which also flatten, i.e. smooth, the covering. (English machine translation, page 5, lines 21-32 and Figures 10-13)

It would have been obvious to one skilled in the art at the time the invention was made to laminate the covering films with a coating of adhesive onto the mounting

substrate as disclosed by Fujikawa et al in the method of the admitted prior art to allow the covering film to be laminated onto the substrate quickly and easily while also providing a smooth surface.

Allowable Subject Matter

3. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
4. Claims 2 and 3 are allowed.
5. The following is an examiner's statement of reasons for allowance: The claims recite a method of producing IC cards. The method includes continuously feeding a mount substrate having unevenness on the surface due to the components, feeding a pair of sheet members on both surface sides of the mount substrate, which interposed the substrate between the sheet members and one of the sheet members can be a release sheet, coating the surface of the sheet members with an adhesive in fluid condition, gradually regulating, i.e. narrowing, the distance between the sheet members and the substrate and hardening the adhesive. Toke (JP 10-302040) discloses a method of forming an IC card. The method includes the steps of continuous feeding the mounting sheet with the IC components, continuous feeding two sheathing sheets, applying adhesive to the sheathing sheets and laminating the sheathing sheets onto both sides of the mounting sheet and hardening the adhesive. (English machine translation, Page 4, Paragraphs 41 to 45) Toke does not disclose the surface of the substrate is uneven when the two sheathing sheets mounted or one of the sheathing

sheets is a release sheet or gradually narrowing the distance between the sheet members. Fujikawa et al discloses a method for producing a thin electronic circuit component. The method includes feeding the substrate film with the mounted components, feeding a cover film coated with a hot melt adhesive paste, and laminating the cover film over the substrate film with heat and pressure with hot rolls. (English machine translation, page 5, lines 21-32 and Figures 10-13) Fujikawa et al does not disclose a second cover film for the opposite side of the substrate or the cover film is a release sheet or gradually narrowing the distance between the cover film and the mounted substrate. A search of the prior art of record did not disclose reference or references with the recited features.

Response to Arguments

6. Applicant's arguments filed September 2, 2003 have been fully considered but they are not persuasive.
7. In response to applicant's arguments of Fujikawa et al does not disclose a pair of sheet members to sandwich the mounting substrate. However, the examiner relied on Fujikawa et al to providing the teaching for applying the adhesive material onto the sheet member prior to applying the sheet member to the mounting substrate and to pressurize the adhesive and flattening the adhesive as lamination is performed, which would provide a smooth surface. (See English Machine Translation of 11-161760, Page 5, lines 21-32) The teaching for the sandwiching the mounting substrate with a pair to sheet members is provided by the admitted prior art in the specification.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sing P Chan whose telephone number is 703-305-3175. The examiner can normally be reached on Monday-Friday 7:30AM-11:15AM and 12:15PM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 703-308-3853. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Chan Sing P
spc

R. Crispino

RICHARD CRISPINO
SUPERVISORY PATENT EXAMINER
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